

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-34 (canceled)

35. (new) A rotating device comprising:

- (a) a rotatable body;
- (b) a rotation data measuring means deployed inside said rotatable body, said rotation data measuring means configured to produce a substantially sinusoidal out signal having a frequency related to rotation of said rotatable body;
- (c) a control unit configured to receive data relating to rotation of said rotatable body from said rotation data measuring means; and
- (d) a signal-amplifying means configured to input said substantially sinusoidal signal from said rotation data measuring means, to amplify said substantially sinusoidal signal so as to convert said substantially sinusoidal signal to a substantially rectangular wave signal having a frequency substantially identical to the frequency of said substantially sinusoidal signal, and to output said substantially rectangular wave signal to said control unit.

36. (new) The device of claim 35, wherein said rotatable body is one of the objects selected from the group consisting of tops, flying disks, flying rings, boomerangs, roulette wheels, yo-yos, balls, and ko-en-gen.

37. (new) The device of claim 35, wherein said rotation data measuring means comprise a means for detecting the magnetic field of the Earth.

38. (new) The device of claim 37, wherein said control unit is configured to determine a true direction for said data received from said rotation measuring means.

39. (new) The device of claim 37, wherein said rotation data measuring means comprises an induction coil.

40. (new) The device of claim 35, further comprising:

- (a) a display means disposed along at least a portion of said rotatable body;
- (b) a display control means for controlling display of images on said display means; and
- (c) a clock means coupled to said display control means for refreshing said display of images on said display means at a clock rate, wherein said clock rate is dependent on said rotation data.

41. (new) The device of claim 40, wherein said display means comprises a plurality of independently activatable and deactivatable light sources.

42. (new) The device of claim 40, wherein said control unit is configured to calculate a number of revolutions that said rotatable body has performed and display said number of revolutions using said display means.

43. (new) The device of claim 40, wherein said control unit is configured to calculate a rate of rotation of said rotatable body and display said rate of rotation using said display means.

44. (new) The device of claim 35, further comprising a wireless data receiving means configured to receive data from a remote location and pass said data to said control unit.

45. (new) The device of claim 35, further comprising a wireless data transceiver configured to receive rotation data from said control unit and transmit said rotation data to a remote location, and further configured to receive data from a remote location and pass said data to said control unit.

46. (new) A rotating device comprising:

- (a) a rotatable body;
- (b) a rotation data measuring means deployed inside said rotatable body;
- (c) a control unit configured to receive data relating to rotation of said rotatable body from said rotation data measuring means; and
- (d) a perturbation generating means configured to receive data from said control unit and to generate periodic perturbations synchronized with the

rotation of the device so as to cause said rotatable body to move in a prescribed direction.

47. (new) The device of claim 46, wherein said rotatable body is one of the objects selected from the group consisting of tops, flying disks, flying rings, boomerangs, roulette wheels, yo-yos, balls, and ko-en-gen.

48. (new) The device of claim 46, further comprising a wireless data receiving means configured to receive data from a remote location and pass said data to said control unit.

49. (new) The device of claim 46, wherein said perturbation generating means comprise a mass moving means configured to periodically move the center of mass of said rotatable body.

50. (new) The device of claim 46, wherein said perturbation generating means comprise an air-resistance varying means configured to periodically change the air resistance of said rotating body.

51. (new) The device of claim 46, further comprising a wireless data transceiver configured to receive rotation data from said control unit and transmit said rotation data to a remote location, and further configured to receive data from a remote location and pass said data to said control unit.

52. (new) A rotating device comprising:

- (a) a rotatable body;
- (b) a rotation data measuring means deployed inside said rotatable body, said rotational data measuring means is configured to detect the magnetic field of the Earth, and said rotation data measuring means is configured to produce a substantially sinusoidal out signal having a frequency related to rotation of said rotatable body;
- (c) a control unit configured to receive data relating to rotation of said rotatable body from said rotation data measuring means; and
- (d) a perturbation generating means configured to receive data from said control unit and to generate periodic perturbations synchronized with the rotation of the device so as to cause said rotatable body to move in a prescribed direction.

53. (new) The device of claim 52, wherein said rotatable body is one of the objects selected from the group consisting of tops, flying disks, flying rings, boomerangs, roulette wheels, yo-yos, balls, and ko-en-gen

54. (new) The device of claim 52, further comprising a wireless data receiving means configured to receive data from a remote location and pass said data to said control unit.

55. (new) The device of claim 52, wherein said perturbation generating means comprise a mass moving means configured to periodically move the center of mass of said rotatable body.

56. (new) The device of claim 52, wherein said perturbation generating means comprise an air-resistance varying means configured to periodically change the air resistance of said rotating body.

57. (new) The device of claim 52, further comprising a wireless data transceiver configured to receive rotation data from said control unit and transmit said rotation data to a remote location, and further configured to receive data from a remote location and pass said data to said control unit.

58. (new) A rotating device comprising:

- (a) a rotatable body;
- (b) a rotation data measuring means deployed inside said rotatable body;
- (c) a control unit configured to receive data relating to rotation of said rotatable body from said rotation data measuring means;
- (d) a display means disposed along at least a portion of said rotatable body;
- (e) a display control means for controlling display of images on said display means;
- (f) a clock means coupled to said display control means for refreshing said display of images on said display means at a clock rate, wherein said clock rate is dependent on said rotation data; and

- (g) a perturbation generating means configured to receive data from said control unit and to generate periodic perturbations synchronized with the rotation of the device so as to cause said rotatable body to move in a prescribed direction.

59. (new) The device of claim 58, wherein said rotatable body is one of the objects selected from the group consisting of tops, flying disks, flying rings, boomerangs, roulette wheels, yo-yos, balls, and ko-en-gen

60. (new) The device of claim 58, further comprising a wireless data receiving means configured to receive data from a remote location and pass said data to said control unit.

61. (new) The device of claim 58, wherein said perturbation generating means comprise a mass moving means configured to periodically move the center of mass of said rotatable body.

62. (new) The device of claim 58, wherein said perturbation generating means comprise an air-resistance varying means configured to periodically change the air resistance of said rotating body.

63. (new) The device of claim 58, further comprising a wireless data transceiver configured to receive rotation data from said control unit and transmit said rotation

data to a remote location, and further configured to receive data from a remote location and pass said data to said control unit.

64. (new) The device of claim 58, wherein said rotation data measuring means comprise a means for detecting the magnetic field of the Earth.